FIGURE 1A

CHIR 12.12 light chain:

leader:

MALPAQLLGLLMLWVSGSSG

variable:

DIVMTQSPLSLTVTPGEPASISCRSSQSLLYSNGYNYLDWYLQKPGQSPQVLISLGS NRASGVPDRFSGSGSGTDFTLKISRVEAEDVGVYYCMQARQTPFTFGPGTKVDIR

constant:

RTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVT EODSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

FIGURE 1B

CHIR-12.12 heavy chain:

leader:

MEFGLSWVFLVAILRGVQC

variable:

QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYGMHWVRQAPGKGLEWVAVISYEESN RYHADSVKGRFTISRDNSKITLYLQMNSLRTEDTAVYYCARDGGIAAPGPDYWGQGT LVTVSS

constant:

ASTKGPSVFPLAPASKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVL QSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPA PELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAK TKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPRE PQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDG SFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

alternative constant region:

ASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVL QSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPA PELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAK TKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPRE PQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDG SFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

FIGURE 2A

DNA sequence of light chain of CHIR-12.12:

FIGURE 2B

DNA sequence of heavy chain of CHIR-12.12 (including introns):

5'atggagtttgggctgagctgggttttccttgttgctattttaagaggtgtccagtgtcaggtgcagttggtggagtctggggg aggegtggtceageetgggaggtceetgagacteteetgtgeageetetggatteaeetteagtagetatggeatgeaetgg gtccgccaggctccaggcaaggggctggagtggcagttatatcatatgaggaaagtaatagataccatgcagactccgtgaagggccgattcaccatctccagagacaattccaagatcacgctgtatctgcaaatgaacagcctcagaactgagga cacggctgtgtattactgtgcgagagatgggggtatagcagcacctgggcctgactactggggccaggggaaccctggtcaccgtctcctcagcaagtaccaagggcccatccgtcttccccctggcgcccgctagcaagagcacctctgggggcacagcggccctgggctgcctggtcaaggactacttccccgaaccggtgacggtgtcgtggaactcaggcgccctgaccagcggc gtgcacacettcccggctgtcctacagtcctcaggactctactccctcagcagcgtggtgaccgtgccctccagcagcttgg gcacccagacctacatctgcaacgtgaatcacaagcccagcaacaccaaggtggacaagaggttggtgagaggccagagggeag caaggeag gecegtet gectet trace eggaggeet et gecegee caat cat get cagggag agggtet the support of the setggettttteeceaggetetgggeaggeaeaggetaggtgeecetaacceaggeeetgeacacaaaaggggeaggtgetg ggetcagacetgecaagagecatateegggaggaceetgeceetgacetaageceaaegecaaacteteeaet ccet cage teggaca cette te ecce agatte cagta actee caat et te tetge agage ccaa at ett g t gacaa aactee cage teggaca actet te teggaca actet g t gacaa aactee comment acte to the teggaca actet to thegcetgcatccagggacaggccccagccgggtgctgacacgtccacetccatctcttcctcagcacctgaactcctggggg gaccgtcagtcttcctcttcccccaaaaacccaaggacaccctcatgatctcccggacccctgaggtcacatgcgtggtggtggacgtgagccacgaagaccctgaggtcaagttcaactggtacgtggacggcgtggaggtgcataatgccaagacaaagccgcgggaggagcagtacaacagcacgtaccgtgtggtcagcgtcctcaccgtcctgcaccaggactggctgaatggca aggagta caagtg caaggtctccaacaaagccctcccagcccccatcgagaaaaccatctccaaagccaaaggtgggaccegtggggtgegagggeeacatggaeagaggeeggeteggeeeaceetetgeeetgagagtgaeegetgtaeeaacetctgtccctacagggcagccccgagaaccacaggtgtacaccctgcccccatcccgggaggagatgaccaagaaccagg t cag cct gacct gct caa agget to tatcc cag cgacat cgccgt ggag t ggag ag caat gg gcag ccg gag aa a can be considered as a considered considered and considered agget gas and considered agget gas acaactacaagaccacgcctcccgtgctggactccgacggctccttcttcctctatagcaagctcaccgtggacaagagcag gtggcagcaggggaacgtcttctcatgctccgtgatgcatgaggctctgcacaaccactacacgcagaagagcctctccctgtctccgggtaaatga3'

FIGURE 3A

CHIR-5.9 light chain:

leader:

MALLAQLLGLLMLWVPGSSG

variable:

AIVMTQPPLSSPVTLGQPASISCRSSQSLVHSDGNTYLNWLQQRPGQPPRLLIYKFF RRLSGVPDRFSGSGAGTDFTLKISRVEAEDVGVYYCMQVTQFPHTFGQGTRLEIK

constant:

RTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVT EQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

FIGURE 3B

CHIR-5.9 heavy chain:

leader:

MGSTAILALLLAVLQGVCA

variable:

EVQLVQSGAEVKKPGESLKISCKGSGYSFTSYWIGWVRQMPGKGLEWMGIIYPGDSD TRYSPSFQGQVTISADKSISTAYLQWSSLKASDTAMYYCARGTAAGRDYYYYYGMDV WGQGTTVTVSS

constant:

ASTKGPSVFPLAPASKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVL QSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPA PELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAK TKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPRE PQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDG SFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

alternative constant region:

ASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVL QSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPA PELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAK TKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPRE PQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDG SFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

FIGURE 4A

Coding sequence for short isoform of human CD40:

- 1 atggttegte tgeetetgea gtgegteete tggggetget tgetgaeege tgteeateea
- 61 gaaccaccca etgeatgeag agaaaaacag tacctaataa acagteagtg etgttetttg
- 121 tgccagccag gacagaaact ggtgagtgac tgcacagagt tcactgaaac ggaatgcctt
- 181 cettgeggtg aaagegaatt cetagacace tggaacagag agacacactg ceaceageac
- 241 aaatactgcg accccaacct agggcttcgg gtccagcaga agggcacctc agaaacagac
- 301 accatetgea cetgtgaaga aggetggeae tgtaegagtg aggeetgtga gagetgtgte
- 361 ctgcaccgct catgctcgcc cggctttggg gtcaagcaga ttgctacagg ggtttctgat
- 421 accatctgcg agccctgccc agtcggcttc ttctccaatg tgtcatctgc tttcgaaaaa
- 481 tgtcaccett ggacaaggte eccaggateg getgagagee etggtggtga tecceateat
- 541 cttcgggatc ctgtttgcca tcctcttggt gctggtcttt atcaaaaagg tggccaagaa
- 601 gccaaccaat aa

FIGURE 4B

Encoded short isoform of human CD40:

- 1 mvrlplqcvl wgclltavhp epptacrekq ylinsqccsl cqpgqklvsd cteftetecl
- 61 pcgesefldt wnrethchqh kycdpnlglr vqqkgtsetd tictceegwh ctseacescv
- 121 lhrscspgfg vkqiatgvsd ticepcpvgf fsnvssafek chpwtrspgs aespggdphh
- 181 lrdpvchplg aglyqkggqe anq

FIGURE 4C

Coding sequence for long isoform of human CD40:

- 1 atggttegte tgeetetgea gtgegteete tggggetget tgetgaeege tgteeateea
- 61 gaaccacca etgeatgeag agaaaaacag tacctaataa acagteagtg etgttetttg
- 121 tgccagccag gacagaaact ggtgagtgac tgcacagagt tcactgaaac ggaatgcctt
- 181 cettgeggtg aaagegaatt cetagacace tggaacagag agacacactg ceaceageac
- 241 aaatactgcg accccaacct agggettegg gteeageaga agggeacete agaaacagae
- 301 accatetgea cetgtgaaga aggetggeae tgtacgagtg aggeetgtga gagetgtgte
- 361 etgeaceget eatgetegee eggetttggg gteaageaga ttgetaeagg ggtttetgat
- 421 accatetgeg agecetgeee agteggette ttetecaatg tgteatetge tttegaaaaa
- 481 tgtcaccett ggacaagetg tgagaccaaa gacetggttg tgcaacagge aggcacaaac
- 541 aagactgatg ttgtctgtgg tccccaggat cggctgagag ccctggtggt gatccccatc
- 601 atcttcggga tcctgtttgc catcctcttg gtgctggtct ttatcaaaaa ggtggccaag
- 661 aagccaacca ataaggcccc ccaccccaag caggaacccc aggagatcaa ttttcccgac
- 721 gatetteetg geteeaacae tgetgeteea gtgeaggaga etttacatgg atgeeaaceg
- 781 gtcacccagg aggatggcaa agagagtcgc atctcagtgc aggagagaca gtga

FIGURE 4D

Encoded long isoform of human CD40:

- 1 mvrlplqcvl wgclltavhp epptacrekq ylinsqccsl cqpgqklvsd cteftetecl
- 61 pcgesefldt wnrethchqh kycdpnlglr vqqkgtsetd tictceegwh ctseacescv
- 121 lhrscspgfg vkqiatgvsd ticepcpvgf fsnvssafek chpwtscetk dlvvqqagtn
- 181 ktdvvcgpqd rlralvvipi ifgilfaill vlvfikkvak kptnkaphpk qepqeinfpd
- 241 dlpgsntaap vqetlhgcqp vtqedgkesr isvqerq

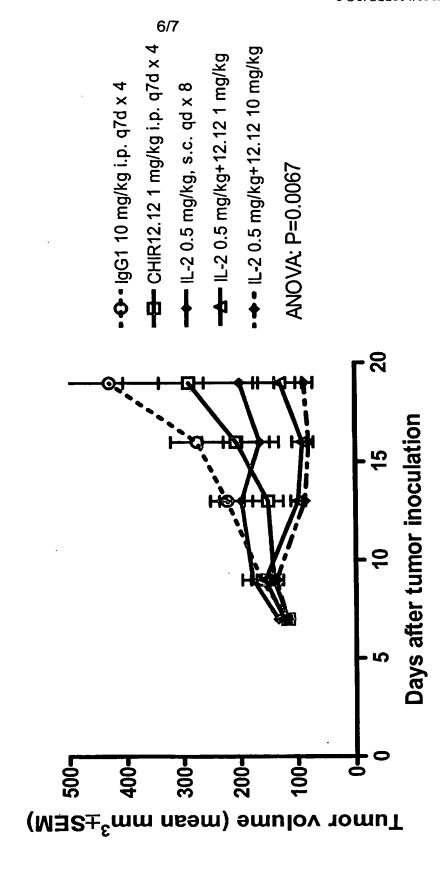


FIGURE 6

